

SEQUENCE LISTING

<110> Weiss, Anthony S.

<120> Protease Susceptibility II

<130> GHC11USA

<140> US 09/743,818

<141> 2001-04-26

<150> AU PP4723

<151> 1998-07-17

<150> PCT/AU99/00580

<151> 1999-07-19

<160> 106

<170> PatentIn version 3.2

<210> 1

<211> 2106

<212> DNA

<213> Homo sapiens

<400> 1

```

atgggtggcg ttccgggtgc tatcccggtt ggcgttccgg gtggtgtatt ctaccagggc      60
gcgggtctgg gtgcactggg cgggtggtgc ctgggcccgg gtggtaaacc gctgaaaccg      120
gttccaggcg gtctggcagg tgcctggtct ggtgcaggtc tgggcgcggt cccggcggtt      180
accttccccg gtgctctggt tccgggtggc gttgcagacg cagctgctgc gtacaaagcg      240
gcaaaggcag gtgcgggtct gggcggggta ccagggtgtg gcggtctggg tgtatctgct      300
ggcgcagttg ttccgcagcc ggggtgcagg gtaaaaccgg gcaaagtcc aggtgttggt      360
ctgccggggc tataccccgg tggtgttctg ccgggcgcgc gtttcccagg tgttggtgta      420
ctgccggggc ttccgaccgg tgcagggtgt aaaccgaagg caccagggtg aggcggcgcg      480
ttcgcgggta tcccggtgtg tggcccgttc ggtggtccgc agccaggcgt tccgctgggt      540
taccgatca aagcgccgaa gcttccagg gtgtacggtc tgccgtacac caccggtaaa      600
ctgccgtacg gctacgggtc ggggtggcgta gcagggtgct cgggtaaagc aggctacca      660
accggtactg gtgttggtcc gcaggctgct gcggcagctg cggcgaaggc agcagcaaaa      720
ttcgggcgcg gtgcagcggg tgttctgccg ggcgtagggt gtgctggcgt tccgggtgtt      780
ccagggtgca tcccgggcat cgggtgtatc gcaggcgtag gtactccggc ggccgctgcg      840

```

gctgcggcag	ctgcggcgaa	agcagctaaa	tacgggtgcgg	cagcaggcct	ggttccgggt	900
gggccaggct	tgggtccggg	tgttgtaggc	gttccgggtg	ctggtgttcc	gggcgtaggt	960
gttccagggtg	cgggcatccc	ggttgtaccg	gggtgcaggta	tcccgggcgc	tgcggttcca	1020
gggtgtgtat	ccccggaagc	ggcagctaag	gctgctgcga	aagctgcgaa	atacggagct	1080
cgtccggggcg	ttggtgttgg	tggcatcccg	acctacgggtg	taggtgcagg	cggtttccca	1140
ggtttcggcg	ttggtgttgg	tggcatcccg	gggtgtagctg	gtgttccgtc	tgttggtggc	1200
gtaccgggtg	ttggtggcgt	tccagggtga	ggatatctcc	cggaaagcgca	ggcagctgcg	1260
gcagctaaag	cagcgaagta	cggcgttggg	actccggcg	cagcagctgc	taaagcagcg	1320
gctaaagcag	cgcagttcgg	actagttccg	ggcgtaggtg	ttgcgccagg	tgttggcgta	1380
gcaccgggtg	ttggtgttgc	tccgggcgta	gggtctggcac	cgggtgttgg	cgttgcacca	1440
gggtgtaggtg	ttgcgccggg	cgttggtgta	gcaccgggta	tcggtccggg	tggcgttgcg	1500
gctgctgcga	aatctgctgc	gaaggttgct	gcgaaagcgc	agctgcgtgc	agcagctggt	1560
ctgggtgcgg	gcatcccagg	tctgggtgta	gggtgttggg	ttccgggcct	gggtgtaggt	1620
gcaggggtac	cgggcctggg	tgttggtgca	ggcgttccgg	gtttcggtgc	tgttccgggc	1680
gcgctggctg	ctgcgaaagc	ggcgaaatac	gggtgcagcg	ttccgggtgt	actgggcggg	1740
ctgggtgctc	tgggcgggtgt	tggatatccg	ggcggtgttg	taggtgcagg	cccagctgca	1800
gctgctgctg	cggcaaaggc	agcggcgaaa	gcagctcagt	tgggtctggt	tgggtgcagca	1860
gggtctgggcg	gtctgggtgt	tggcggtctg	gggtgtaccg	gcgttggtgg	tctgggtggc	1920
atcccgccgg	cggcggcagc	taaagcggct	aaatacgggtg	cagcaggtct	gggtggcggt	1980
ctgggtgggtg	ctggtcagtt	cccactgggc	gggtgtagcg	cacgtccggg	tttcggtctg	2040
tccccgatct	tcccaggcgg	tgcattgcctg	ggtaaagctt	gcggccgtaa	acgtaaataa	2100
tgatag						2106

<210> 2
 <211> 1992
 <212> DNA
 <213> Homo sapiens

<400> 2	
atgggtggcg	ttccgggtgc
tgttccgggt	ggcgttccgg
gtggtgtatt	ctaccaggc
60	
gcgggtttcg	gtgctgttcc
gggtggcggt	gcagacgcag
ctgctgcgta	caaagcggca
120	

aaggcaggtg	cgggtctggg	cggggtacca	ggtggtggcg	gtctgggtgt	atctgctggc	180
gcagttgttc	cgcagccggg	tgcaggtgta	aaaccgggca	aagttccagg	tgttggtctg	240
ccgggcgtat	accggggttt	cgggtgctgtt	ccgggcgcgc	gtttcccagg	tgttggtgta	300
ctgccggggc	ttccgaccgg	tgcaggtgtt	aaaccgaagg	caccaggtgt	aggcggcgcg	360
ttcgcgggta	tcccgggtgt	tggcccgttc	ggtggtccgc	agccaggcgt	tccgctgggt	420
taccgatca	aagcgccgaa	gcttccaggt	ggctacggtc	tgccgtacac	caccggtaaa	480
ctgccgtacg	gctacgggtc	gggtggcgta	gcaggtgctg	cgggtaaagc	aggctaccca	540
accggtactg	gtggttggtc	gcaggctgct	gcggcagctg	cggcgaaggc	agcagcaaaa	600
ttcggcgcgg	gtgcagcggg	tttcgggtgt	gttccggggc	taggtggtgc	tggcgttccg	660
ggtgttccag	gtgcgatccc	gggcacgggt	ggtatcgag	gcgtaggtac	tccggcggcc	720
gctgcggctg	cggcagctgc	ggcgaaagca	gctaaatacg	gtgcggcagc	aggcctgggt	780
ccgggtggtc	caggcttcgg	tccgggtgtt	gtaggcggtc	cgggtttcgg	tgctgttccg	840
ggcgtaggtg	ttccaggtgc	gggcacccc	gttgtagcgg	gtgcaggtat	cccgggcgct	900
gcgggtttcg	gtgctgtatc	cccgggaagc	gcagctaagg	ctgctgcgaa	agctgcgaaa	960
tacggagctc	gtccgggcgt	tgggtgttgg	ggcatcccga	cctacgggtg	agggtgcaggc	1020
ggtttcccag	gtttcggcgt	tgggtgttgg	ggcatcccgg	gtgtagctgg	tgttccgtct	1080
gttggtggcg	taccgggtgt	tgggtggcgt	ccaggtgtag	gtatctcccc	ggaagcgag	1140
gcagctgcgg	cagctaaagc	agcgaagtac	ggcgttggtg	ctccggcggc	agcagctgct	1200
aaagcagcgg	ctaaagcagc	gcagttcgga	ctagttccgg	gcgtaggtgt	tgcgccaggt	1260
gttggcgtag	caccgggtgt	tgggtgttgc	ccgggcgtag	gtctggcacc	gggtgttggc	1320
gttgccaccg	gtgtaggtgt	tgcgccgggc	gttggtgtag	caccgggtat	cgggtccgggt	1380
ggcgttgcgg	ctgctgcgaa	atctgctgcg	aagggtgctg	cgaaagcgca	gctgcgtgca	1440
gcagctggtc	tgggtgcggg	catcccaggt	ctgggtgtag	gtggttggtg	tccgggcctg	1500
ggtgtaggtg	caggggtacc	gggcctgggt	gttggtgcag	gcgttccggg	tttcgggtgt	1560
gttccggggc	cgctggctgc	tgcgaaagcg	gcgaaatacg	gtgctgttcc	gggtgtactg	1620
ggcggtctgg	gtgctctggg	cgggtgttgg	atcccgggcg	gtggtgtagg	tgcaggccca	1680
gctgcagctg	ctgctgcggc	aaaggcagcg	gcgaaagcag	ctcagttcgg	tctgggttgg	1740
gcagcaggtc	tgggcgggtc	gggtgttggc	ggtctgggtg	taccgggcgt	tgggtgtctg	1800

ggtggcatcc cgccggcggc ggcagctaaa gcggctaaat acggtgcagc aggtctgggt 1860
ggcgttctgg gtggtgctgg tcagttccca ctgggcgggtg tagcggcacg tccgggtttc 1920
ggtctgtccc cgatcttccc aggcgggtgca tgctgggta aagcttgagg ccgtaaactg 1980
aaataatgat ag 1992

<210> 3
<211> 2210
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (9)..(2201)

<400> 3
gatccatg ggt ggc gtt ccg ggt gct atc ccg ggt ggc gtt ccg ggt ggt 50
Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly Gly
1 5 10

gta ttc tac cca ggc gcg ggt ctg ggt gca ctg ggc ggt ggt gcg ctg 98
Val Phe Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Gly Ala Leu
15 20 25 30

ggc ccg ggt ggt aaa ccg ctg aaa ccg gtt cca ggc ggt ctg gca ggt 146
Gly Pro Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly
35 40 45

gct ggt ctg ggt gca ggt ctg ggc gcg ttc ccg gcg gtt acc ttc ccg 194
Ala Gly Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro
50 55 60

ggt gct ctg gtt ccg ggt ggc gtt gca gac gca gct gct gcg tac aaa 242
Gly Ala Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Tyr Lys
65 70 75

gcg gca aag gca ggt gcg ggt ctg ggc ggc gta cca ggt gtt ggc ggt 290
Ala Ala Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly
80 85 90

ctg ggt gta tct gct ggc gca gtt gtt ccg cag ccg ggt gca ggt gta 338
Leu Gly Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly Val
95 100 105 110

aaa ccg ggc aaa gtt cca ggt gtt ggt ctg ccg ggc gta tac ccg ggt 386
Lys Pro Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro Gly
115 120 125

ggt gtt ctg ccg ggc gcg cgt ttc cca ggt gtt ggt gta ctg ccg ggc 434
Gly Val Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro Gly

130						135						140						
ggt	ccg	acc	ggt	gca	ggt	ggt	aaa	ccg	aag	gca	cca	ggt	gta	ggc	ggc			482
Val	Pro	Thr	Gly	Ala	Gly	Val	Lys	Pro	Lys	Ala	Pro	Gly	Val	Gly	Gly			
		145					150					155						
gcg	ttc	gcg	ggt	atc	ccg	ggt	ggt	ggc	ccg	ttc	ggt	ggt	ccg	cag	cca			530
Ala	Phe	Ala	Gly	Ile	Pro	Gly	Val	Gly	Pro	Phe	Gly	Gly	Pro	Gln	Pro			
	160					165					170							
ggc	ggt	ccg	ctg	ggt	tac	ccg	atc	aaa	gcg	ccg	aag	ctt	cca	ggt	ggc			578
Gly	Val	Pro	Leu	Gly	Tyr	Pro	Ile	Lys	Ala	Pro	Lys	Leu	Pro	Gly	Gly			
175					180					185					190			
tac	ggt	ctg	ccg	tac	acc	acc	ggt	aaa	ctg	ccg	tac	ggc	tac	ggt	ccg			626
Tyr	Gly	Leu	Pro	Tyr	Thr	Thr	Gly	Lys	Leu	Pro	Tyr	Gly	Tyr	Gly	Pro			
				195					200					205				
ggt	ggc	gta	gca	ggt	gct	gcg	ggt	aaa	gca	ggc	tac	cca	acc	ggt	act			674
Gly	Gly	Val	Ala	Gly	Ala	Ala	Gly	Lys	Ala	Gly	Tyr	Pro	Thr	Gly	Thr			
			210					215					220					
ggt	ggt	ggt	ccg	cag	gct	gct	gcg	gca	gct	gcg	gcg	aag	gca	gca	gca			722
Gly	Val	Gly	Pro	Gln	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Lys	Ala	Ala	Ala			
		225					230					235						
aaa	ttc	ggc	gcg	ggt	gca	gcg	ggt	ggt	ctg	ccg	ggc	gta	ggt	ggt	gct			770
Lys	Phe	Gly	Ala	Gly	Ala	Ala	Gly	Val	Leu	Pro	Gly	Val	Gly	Gly	Ala			
	240					245					250							
ggc	ggt	ccg	ggt	ggt	cca	ggt	gcg	atc	ccg	ggc	atc	ggt	ggt	atc	gca			818
Gly	Val	Pro	Gly	Val	Pro	Gly	Ala	Ile	Pro	Gly	Ile	Gly	Gly	Ile	Ala			
255					260					265					270			
ggc	gta	ggt	act	ccg	gcg	gcc	gct	gcg	gct	gcg	gca	gct	gcg	gcg	aaa			866
Gly	Val	Gly	Thr	Pro	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Lys			
				275					280					285				
gca	gct	aaa	tac	ggt	gcg	gca	gca	ggc	ctg	ggt	ccg	ggt	ggt	cca	ggc			914
Ala	Ala	Lys	Tyr	Gly	Ala	Ala	Ala	Gly	Leu	Val	Pro	Gly	Gly	Pro	Gly			
			290					295					300					
ttc	ggt	ccg	ggt	ggt	gta	ggc	ggt	ccg	ggt	gct	ggt	ggt	ccg	ggc	gta			962
Phe	Gly	Pro	Gly	Val	Val	Gly	Val	Pro	Gly	Ala	Gly	Val	Pro	Gly	Val			
		305					310					315						
ggt	ggt	cca	ggt	gcg	ggc	atc	ccg	ggt	gta	ccg	ggt	gca	ggt	atc	ccg			1010
Gly	Val	Pro	Gly	Ala	Gly	Ile	Pro	Val	Val	Pro	Gly	Ala	Gly	Ile	Pro			
		320				325					330							
ggc	gct	gcg	ggt	cca	ggt	ggt	gta	tcc	ccg	gaa	gcg	gca	gct	aag	gct			1058
Gly	Ala	Ala	Val	Pro	Gly	Val	Val	Ser	Pro	Glu	Ala	Ala	Ala	Lys	Ala			
335					340					345					350			
gct	gcg	aaa	gct	gcg	aaa	tac	gga	gct	cgt	ccg	ggc	ggt	ggt	ggt	ggt			1106

Ala	Ala	Lys	Ala	Ala	Lys	Tyr	Gly	Ala	Arg	Pro	Gly	Val	Gly	Val	Gly	
			355						360					365		
ggc	atc	ccg	acc	tac	ggg	gta	ggg	gca	ggc	ggg	ttc	cca	ggg	ttc	ggc	1154
Gly	Ile	Pro	Thr	Tyr	Gly	Val	Gly	Ala	Gly	Gly	Phe	Pro	Gly	Phe	Gly	
			370					375					380			
gtt	ggg	gtt	ggg	ggc	atc	ccg	ggg	gta	gct	ggg	gtt	ccg	tct	gtt	ggg	1202
Val	Gly	Val	Gly	Gly	Ile	Pro	Gly	Val	Ala	Gly	Val	Pro	Ser	Val	Gly	
		385					390					395				
ggc	gta	ccg	ggg	gtt	ggg	ggc	gtt	cca	ggg	gta	ggg	atc	tcc	ccg	gaa	1250
Gly	Val	Pro	Gly	Val	Gly	Gly	Val	Pro	Gly	Val	Gly	Ile	Ser	Pro	Glu	
	400					405					410					
gcg	cag	gca	gct	gcg	gca	gct	aaa	gca	gcg	aag	tac	ggc	gtt	ggg	act	1298
Ala	Gln	Ala	Ala	Ala	Ala	Ala	Lys	Ala	Ala	Lys	Tyr	Gly	Val	Gly	Thr	
415				420						425					430	
ccg	gcg	gca	gca	gct	gct	aaa	gca	gcg	gct	aaa	gca	gcg	cag	ttc	gga	1346
Pro	Ala	Ala	Ala	Ala	Ala	Lys	Ala	Ala	Ala	Lys	Ala	Ala	Gln	Phe	Gly	
				435				440						445		
cta	gtt	ccg	ggc	gta	ggg	gtt	gcg	cca	ggg	gtt	ggc	gta	gca	ccg	ggg	1394
Leu	Val	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	
			450					455					460			
gtt	ggg	gtt	gct	ccg	ggc	gta	ggg	ctg	gca	ccg	ggg	gtt	ggc	gtt	gca	1442
Val	Gly	Val	Ala	Pro	Gly	Val	Gly	Leu	Ala	Pro	Gly	Val	Gly	Val	Ala	
		465					470					475				
cca	ggg	gta	ggg	gtt	gcg	ccg	ggc	gtt	ggg	gta	gca	ccg	ggg	atc	ggg	1490
Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Ile	Gly	
	480					485					490					
ccg	ggg	ggc	gtt	gcg	gct	gct	gcg	aaa	tct	gct	gcg	aag	gtt	gct	gcg	1538
Pro	Gly	Gly	Val	Ala	Ala	Ala	Ala	Lys	Ser	Ala	Ala	Lys	Val	Ala	Ala	
495				500						505					510	
aaa	gcg	cag	ctg	cgt	gca	gcag	gct	ggg	ctg	ggg	gcg	ggc	atc	cca	ggg	1586
Lys	Ala	Gln	Leu	Arg	Ala	Ala	Ala	Gly	Leu	Gly	Ala	Gly	Ile	Pro	Gly	
				515					520					525		
ctg	ggg	gta	ggg	gtt	ggg	gtt	ccg	ggc	ctg	ggg	gta	ggg	gca	ggg	gta	1634
Leu	Gly	Val	Gly	Val	Gly	Val	Pro	Gly	Leu	Gly	Val	Gly	Ala	Gly	Val	
			530					535					540			
ccg	ggc	ctg	ggg	gtt	ggg	gca	ggc	gtt	ccg	ggg	ttc	ggg	gct	ggc	gcg	1682
Pro	Gly	Leu	Gly	Val	Gly	Ala	Gly	Val	Pro	Gly	Phe	Gly	Ala	Gly	Ala	
		545					550					555				
gac	gaa	ggg	gta	cgt	cgt	tcc	ctg	tct	cca	gaa	ctg	cgt	gaa	ggg	gac	1730
Asp	Glu	Gly	Val	Arg	Arg	Ser	Leu	Ser	Pro	Glu	Leu	Arg	Glu	Gly	Asp	
	560					565					570					

ccg tcc tct tcc cag cac ctg ccg tct acc ccg tcc tct cca cgt gtt	1778
Pro Ser Ser Ser Gln His Leu Pro Ser Thr Pro Ser Ser Pro Arg Val	
575 580 585 590	
ccg ggc gcg ctg gct gct gcg aaa gcg gcg aaa tac ggt gca gcg gtt	1826
Pro Gly Ala Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val	
595 600 605	
ccg ggt gta ctg ggc ggt ctg ggt gct ctg ggc ggt gtt ggt atc ccg	1874
Pro Gly Val Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro	
610 615 620	
ggc ggt gtt gta ggt gca ggc cca gct gca gct gct gct gcg gca aag	1922
Gly Gly Val Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Ala Lys	
625 630 635	
gca gcg gcg aaa gca gct cag ttc ggt ctg gtt ggt gca gca ggt ctg	1970
Ala Ala Ala Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu	
640 645 650	
ggc ggt ctg ggt gtt ggc ggt ctg ggt gta ccg ggc gtt ggt ggt ctg	2018
Gly Gly Leu Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu	
655 660 665 670	
ggt ggc atc ccg ccg gcg gcg gca gct aaa gcg gct aaa tac ggt gca	2066
Gly Gly Ile Pro Pro Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala	
675 680 685	
gca ggt ctg ggt ggc gtt ctg ggt ggt gct ggt cag ttc cca ctg ggc	2114
Ala Gly Leu Gly Gly Val Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly	
690 695 700	
ggt gta gcg gca cgt ccg ggt ttc ggt ctg tcc ccg atc ttc cca ggc	2162
Gly Val Ala Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly	
705 710 715	
ggt gca tgc ctg ggt aaa gct tgc ggc cgt aaa cgt aaa taatgatag	2210
Gly Ala Cys Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys	
720 725 730	

<210> 4
 <211> 731
 <212> PRT
 <213> Homo sapiens

<400> 4

Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly Gly Val Phe
1 5 10 15

Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro
20 25 30

Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly
 35 40 45

Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala
 50 55 60

Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Tyr Lys Ala Ala
 65 70 75 80

Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly Leu Gly
 85 90 95

Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly Val Lys Pro
 100 105 110

Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro Gly Gly Val
 115 120 125

Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro Gly Val Pro
 130 135 140

Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly Gly Ala Phe
 145 150 155 160

Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln Pro Gly Val
 165 170 175

Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly
 180 185 190

Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly
 195 200 205

Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val
 210 215 220

Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe
 225 230 235 240

Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly Ala Gly Val
 245 250 255

Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val
260 265 270

Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala
275 280 285

Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly
290 295 300

Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly Val Gly Val
305 310 315 320

Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala
325 330 335

Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala
340 345 350

Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val Gly Gly Ile
355 360 365

Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe Gly Val Gly
370 375 380

Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Ser Val Gly Gly Val
385 390 395 400

Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile Ser Pro Glu Ala Gln
405 410 415

Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Gly Thr Pro Ala
420 425 430

Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe Gly Leu Val
435 440 445

Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
450 455 460

Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly

465		470		475		480
Val Gly Val Ala	Pro Gly Val Gly Val Ala	Pro Gly Ile Gly	Pro Gly			
	485	490	495			
Gly Val Ala Ala	Ala Ala Lys Ser Ala	Ala Lys Val Ala	Ala Lys Ala			
	500	505	510			
Gln Leu Arg Ala	Ala Ala Gly Leu Gly Ala	Gly Ile Pro Gly	Leu Gly			
	515	520	525			
Val Gly Val Gly	Val Pro Gly Leu Gly Val Gly	Ala Gly Val Pro Gly				
	530	535	540			
Leu Gly Val Gly	Ala Gly Val Pro Gly Phe	Gly Ala Gly Ala	Asp Glu			
545	550	555	560			
Gly Val Arg Arg	Ser Leu Ser Pro Glu	Leu Arg Glu Gly	Asp Pro Ser			
	565	570	575			
Ser Ser Gln His	Leu Pro Ser Thr Pro	Ser Ser Pro Arg	Val Pro Gly			
	580	585	590			
Ala Leu Ala Ala	Lys Ala Ala Lys Tyr Gly	Ala Ala Val Pro Gly				
	595	600	605			
Val Leu Gly Gly	Leu Gly Ala Leu Gly Gly	Val Gly Ile Pro Gly Gly				
	610	615	620			
Val Val Gly Ala	Gly Pro Ala Ala Ala Ala	Ala Ala Lys Ala	Ala			
625	630	635	640			
Ala Lys Ala Ala	Gln Phe Gly Leu Val Gly	Ala Ala Gly Leu Gly Gly				
	645	650	655			
Leu Gly Val Gly	Gly Leu Gly Val Pro Gly	Val Gly Gly Leu Gly Gly				
	660	665	670			
Ile Pro Pro Ala	Ala Ala Lys Ala	Ala Lys Tyr Gly	Ala Ala Gly			
	675	680	685			

Leu Gly Gly Val Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val
690 695 700

Ala Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala
705 710 715 720

Cys Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys
725 730

<210> 5
<211> 698
<212> PRT
<213> Homo sapiens

<400> 5

Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly Gly Val Phe
1 5 10 15

Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro
20 25 30

Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly
35 40 45

Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala
50 55 60

Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Tyr Lys Ala Ala
65 70 75 80

Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly Leu Gly
85 90 95

Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly Val Lys Pro
100 105 110

Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro Gly Gly Val
115 120 125

Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro Gly Val Pro
130 135 140

Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly Gly Ala Phe
 145 150 155 160

Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln Pro Gly Val
 165 170 175

Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly
 180 185 190

Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly
 195 200 205

Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val
 210 215 220

Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe
 225 230 235 240

Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly Ala Gly Val
 245 250 255

Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val
 260 265 270

Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala
 275 280 285

Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly
 290 295 300

Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly Val Gly Val
 305 310 315 320

Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala
 325 330 335

Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala
 340 345 350

Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val Gly Gly Ile
 355 360 365

Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe Gly Val Gly
370 375 380

Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Ser Val Gly Gly Val
385 390 395 400

Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile Ser Pro Glu Ala Gln
405 410 415

Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Gly Thr Pro Ala
420 425 430

Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe Gly Leu Val
435 440 445

Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
450 455 460

Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly
465 470 475 480

Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Ile Gly Pro Gly
485 490 495

Gly Val Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala
500 505 510

Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly
515 520 525

Val Gly Val Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly
530 535 540

Leu Gly Val Gly Ala Gly Val Pro Gly Phe Gly Ala Val Pro Gly Ala
545 550 555 560

Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly Val
565 570 575

Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly Val
580 585 590

Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala
595 600 605

Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly Leu
610 615 620

Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly Ile
625 630 635 640

Pro Pro Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly Leu
645 650 655

Gly Gly Val Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val Ala
660 665 670

Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala Cys
675 680 685

Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys
690 695

<210> 6
<211> 661
<212> PRT
<213> Homo sapiens

<400> 6

Met Gly Gly Val Pro Gly Ala Val Pro Gly Gly Val Pro Gly Gly Val
1 5 10 15

Phe Tyr Pro Gly Ala Gly Phe Gly Ala Val Pro Gly Gly Val Ala Asp
20 25 30

Ala Ala Ala Ala Tyr Lys Ala Ala Lys Ala Gly Ala Gly Leu Gly Gly
35 40 45

Val Pro Gly Val Gly Gly Leu Gly Val Ser Ala Gly Ala Val Val Pro
50 55 60

Gln Pro Gly Ala Gly Val Lys Pro Gly Lys Val Pro Gly Val Gly Leu
65 70 75 80

Pro Gly Val Tyr Pro Gly Phe Gly Ala Val Pro Gly Ala Arg Phe Pro
85 90 95

Gly Val Gly Val Leu Pro Gly Val Pro Thr Gly Ala Gly Val Lys Pro
100 105 110

Lys Ala Pro Gly Val Gly Gly Ala Phe Ala Gly Ile Pro Gly Val Gly
115 120 125

Pro Phe Gly Gly Pro Gln Pro Gly Val Pro Leu Gly Tyr Pro Ile Lys
130 135 140

Ala Pro Lys Leu Pro Gly Gly Tyr Gly Leu Pro Tyr Thr Thr Gly Lys
145 150 155 160

Leu Pro Tyr Gly Tyr Gly Pro Gly Gly Val Ala Gly Ala Ala Gly Lys
165 170 175

Ala Gly Tyr Pro Thr Gly Thr Gly Val Gly Pro Gln Ala Ala Ala Ala
180 185 190

Ala Ala Ala Lys Ala Ala Ala Lys Phe Gly Ala Gly Ala Ala Gly Phe
195 200 205

Gly Ala Val Pro Gly Val Gly Gly Ala Gly Val Pro Gly Val Pro Gly
210 215 220

Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val Gly Thr Pro Ala Ala
225 230 235 240

Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala
245 250 255

Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly Pro Gly Val Val Gly
260 265 270

Val Pro Gly Phe Gly Ala Val Pro Gly Val Gly Val Pro Gly Ala Gly
275 280 285

Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala Ala Gly Phe Gly

290		295		300
Ala Val Ser Pro Glu	Ala Ala Lys Ala	Ala Ala Lys Ala	Ala Lys	Lys
305	310	315		320
Tyr Gly Ala Arg	Pro Gly Val Gly Val	Gly Gly Ile Pro Thr	Tyr Gly	
	325	330	335	
Val Gly Ala Gly Gly Phe	Pro Gly Phe Gly Val Gly Val	Gly Gly Ile	Gly Gly Ile	
	340	345	350	
Pro Gly Val Ala Gly Val	Pro Ser Val Gly Gly Val	Pro Gly Val Gly		
	355	360	365	
Gly Val Pro Gly Val Gly	Ile Ser Pro Glu Ala Gln	Ala Ala Ala Ala		
	370	375	380	
Ala Lys Ala Ala Lys Tyr Gly Val Gly Thr	Pro Ala Ala Ala Ala			
385	390	395		400
Lys Ala Ala Ala Lys Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly				
	405	410	415	
Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly				
	420	425	430	
Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala				
	435	440	445	
Pro Gly Val Gly Val Ala Pro Gly Ile Gly Pro Gly Gly Val Ala Ala				
	450	455	460	
Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala Gln Leu Arg Ala				
465	470	475		480
Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly Val Gly Val Gly				
	485	490	495	
Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly Leu Gly Val Gly				
	500	505	510	

Ala Gly Val Pro Gly Phe Gly Ala Val Pro Gly Ala Leu Ala Ala Ala
515 520 525

Lys Ala Ala Lys Tyr Gly Ala Val Pro Gly Val Leu Gly Gly Leu Gly
530 535 540

Ala Leu Gly Gly Val Gly Ile Pro Gly Gly Val Val Gly Ala Gly Pro
545 550 555 560

Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe
565 570 575

Gly Leu Val Gly Ala Ala Gly Leu Gly Gly Leu Gly Val Gly Gly Leu
580 585 590

Gly Val Pro Gly Val Gly Gly Leu Gly Gly Ile Pro Pro Ala Ala Ala
595 600 605

Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly Leu Gly Gly Val Leu Gly
610 615 620

Gly Ala Gly Gln Phe Pro Leu Gly Gly Val Ala Ala Arg Pro Gly Phe
625 630 635 640

Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala Cys Leu Gly Lys Ala Cys
645 650 655

Gly Arg Lys Arg Lys
660

<210> 7
<211> 571
<212> PRT
<213> Homo sapiens

<400> 7

Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly Gly Val Phe
1 5 10 15

Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro
20 25 30

Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly
 35 40 45

Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala
 50 55 60

Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Tyr Lys Ala Ala
 65 70 75 80

Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly Leu Gly
 85 90 95

Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly Val Lys Pro
 100 105 110

Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro Gly Gly Val
 115 120 125

Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro Gly Val Pro
 130 135 140

Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly Gly Ala Phe
 145 150 155 160

Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln Pro Gly Val
 165 170 175

Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly
 180 185 190

Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly
 195 200 205

Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val
 210 215 220

Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe
 225 230 235 240

Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly Ala Gly Val
 245 250 255

Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val
260 265 270

Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala
275 280 285

Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly
290 295 300

Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly Val Gly Val
305 310 315 320

Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala
325 330 335

Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala
340 345 350

Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val Gly Gly Ile
355 360 365

Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe Gly Val Gly
370 375 380

Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Ser Val Gly Gly Val
385 390 395 400

Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile Ser Pro Glu Ala Gln
405 410 415

Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Gly Thr Pro Ala
420 425 430

Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe Gly Leu Val
435 440 445

Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
450 455 460

Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly
465 470 475 480

Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Ile Gly Pro Gly
485 490 495

Gly Val Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala
500 505 510

Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly
515 520 525

Val Gly Val Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly
530 535 540

Leu Gly Val Gly Ala Gly Cys Ser Gly Phe Arg Cys Trp Arg Gly Arg
545 550 555 560

Arg Cys Thr Ser Phe Pro Val Ser Arg Thr Ala
565 570

<210> 8
<211> 9
<212> PRT
<213> Homo sapiens

<400> 8

Lys Ala Pro Gly Val Gly Gly Ala Phe
1 5

<210> 9
<211> 7
<212> PRT
<213> Homo sapiens

<400> 9

Arg Ala Ala Ala Gly Leu Gly
1 5

<210> 10
<211> 11
<212> PRT
<213> Homo sapiens

<400> 10

Arg Ser Leu Ser Pro Glu Leu Arg Glu Gly Asp
1 5 10

<210> 11
<211> 9
<212> PRT
<213> Homo sapiens

<400> 11

Lys Ala Ala Lys Ala Gly Ala Gly Leu
1 5

<210> 12
<211> 9
<212> PRT
<213> Homo sapiens

<400> 12

Lys Ala Gly Ala Gly Leu Gly Gly Val
1 5

<210> 13
<211> 13
<212> PRT
<213> Homo sapiens

<400> 13

Ala Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala
1 5 10

<210> 14
<211> 11
<212> PRT
<213> Homo sapiens

<400> 14

Lys Ala Ala Gln Phe Gly Leu Val Pro Gly Val
1 5 10

<210> 15
<211> 11
<212> PRT
<213> Homo sapiens

<400> 15

Lys Ser Ala Ala Lys Val Ala Ala Lys Ala Gln
1 5 10

<210> 16
<211> 9
<212> PRT
<213> Homo sapiens

<400> 16

Arg Ser Leu Ser Pro Glu Leu Arg Glu
1 5

<210> 17
<211> 8
<212> PRT
<213> Homo sapiens

<400> 17

Gly Gln Leu Arg Ala Ala Ala Gly
1 5

<210> 18
<211> 8
<212> PRT
<213> Homo sapiens

<400> 18

Val Gln Leu Arg Ala Ala Ala Gly
1 5

<210> 19
<211> 8
<212> PRT
<213> Homo sapiens

<400> 19

Ile Gln Leu Arg Ala Ala Ala Gly
1 5

<210> 20
<211> 8
<212> PRT
<213> Homo sapiens

<400> 20

Leu Gln Leu Arg Ala Ala Ala Gly
1 5

<210> 21
<211> 8
<212> PRT
<213> Homo sapiens

<400> 21

Ala Asn Leu Arg Ala Ala Ala Gly
1 5

<210> 22
<211> 8
<212> PRT
<213> Homo sapiens

<400> 22

Ala Gly Leu Arg Ala Ala Ala Gly
1 5

<210> 23
<211> 8
<212> PRT
<213> Homo sapiens

<400> 23

Ala Val Leu Arg Ala Ala Ala Gly
1 5

<210> 24
<211> 8
<212> PRT
<213> Homo sapiens

<400> 24

Ala Ser Leu Arg Ala Ala Ala Gly
1 5

<210> 25
<211> 8
<212> PRT
<213> Homo sapiens

<400> 25

Ala Gln Gly Arg Ala Ala Ala Gly
1 5

<210> 26
<211> 8
<212> PRT
<213> Homo sapiens

<400> 26

Ala Gln Val Arg Ala Ala Ala Gly
1 5

<210> 27
<211> 8
<212> PRT
<213> Homo sapiens

<400> 27

Ala Gln Ile Arg Ala Ala Ala Gly
1 5

<210> 28
<211> 8
<212> PRT
<213> Homo sapiens

<400> 28

Ala Gln Ala Arg Ala Ala Ala Gly
1 5

<210> 29
<211> 8
<212> PRT
<213> Homo sapiens

<400> 29

Ala Gln Leu Arg Gly Ala Ala Gly
1 5

<210> 30
<211> 8
<212> PRT
<213> Homo sapiens

<400> 30

Ala Gln Leu Arg Val Ala Ala Gly
1 5

<210> 31
<211> 8
<212> PRT
<213> Homo sapiens

<400> 31

Ala Gln Leu Arg Ile Ala Ala Gly
1 5

<210> 32
<211> 8
<212> PRT
<213> Homo sapiens

<400> 32

Ala Gln Leu Arg Leu Ala Ala Gly
1 5

<210> 33
<211> 8
<212> PRT
<213> Homo sapiens

<400> 33

Ala Gln Leu Arg Ala Gly Ala Gly
1 5

<210> 34
<211> 8
<212> PRT
<213> Homo sapiens

<400> 34

Ala Gln Leu Arg Ala Val Ala Gly
1 5

<210> 35
<211> 8
<212> PRT
<213> Homo sapiens

<400> 35

Ala Gln Leu Arg Ala Ile Ala Gly
1 5

<210> 36
<211> 8
<212> PRT
<213> Homo sapiens

<400> 36

Ala Gln Leu Arg Ala Leu Ala Gly
1 5

<210> 37
<211> 8
<212> PRT
<213> Homo sapiens

<400> 37

Ala Gln Leu Arg Ala Ala Gly Gly
1 5

<210> 38
<211> 8
<212> PRT
<213> Homo sapiens

<400> 38

Ala Gln Leu Arg Ala Ala Val Gly
1 5

<210> 39
<211> 8
<212> PRT
<213> Homo sapiens

<400> 39

Ala Gln Leu Arg Ala Ala Ile Gly
1 5

<210> 40
<211> 8
<212> PRT
<213> Homo sapiens

<400> 40

Ala Gln Leu Arg Ala Ala Leu Gly
1 5

<210> 41
<211> 8
<212> PRT
<213> Homo sapiens

<400> 41

Ala Gln Leu Arg Ala Ala Ala Ala
1 5

<210> 42
<211> 8
<212> PRT
<213> Homo sapiens

<400> 42

Ala Gln Leu Arg Ala Ala Ala Ile
1 5

<210> 43
<211> 8
<212> PRT
<213> Homo sapiens

<400> 43

Ala Gln Leu Arg Ala Ala Ala Val
1 5

<210> 44
<211> 8
<212> PRT
<213> Homo sapiens

<400> 44

Ala Gln Leu Arg Ala Ala Ala Leu
1 5

<210> 45
<211> 8
<212> PRT
<213> Homo sapiens

<400> 45

Val Gly Gly Ala Leu Ala Ala Ala
1 5

<210> 46
<211> 8
<212> PRT
<213> Homo sapiens

<400> 46

Gly Pro Gly Ala Leu Ala Ala Ala
1 5

<210> 47
<211> 8
<212> PRT
<213> Homo sapiens

<400> 47

Ile Pro Gly Ala Leu Ala Ala Ala
1 5

<210> 48
<211> 8
<212> PRT
<213> Homo sapiens

<400> 48

Leu Pro Gly Ala Leu Ala Ala Ala
1 5

<210> 49
<211> 8
<212> PRT
<213> Homo sapiens

<400> 49

Ala Pro Gly Ala Leu Ala Ala Ala
1 5

<210> 50
<211> 8
<212> PRT
<213> Homo sapiens

<400> 50

Val Pro Gly Ala Leu Ala Ala Ala
1 5

<210> 51
<211> 8
<212> PRT
<213> Homo sapiens

<400> 51

Val Pro Ile Ala Leu Ala Ala Ala
1 5

<210> 52
<211> 8
<212> PRT
<213> Homo sapiens

<400> 52

Val Pro Leu Ala Leu Ala Ala Ala
1 5

<210> 53
<211> 8
<212> PRT
<213> Homo sapiens

<400> 53

Val Pro Val Ala Leu Ala Ala Ala
1 5

<210> 54
<211> 8
<212> PRT
<213> Homo sapiens

<400> 54

Val Pro Gly Ala Gly Ala Ala Ala
1 5

<210> 55
<211> 8
<212> PRT
<213> Homo sapiens

<400> 55

Val Pro Gly Ala Ile Ala Ala Ala
1 5

<210> 56
<211> 8
<212> PRT
<213> Homo sapiens

<400> 56

Val Pro Gly Ala Ala Ala Ala Ala
1 5

<210> 57
<211> 8
<212> PRT
<213> Homo sapiens

<400> 57

Val Pro Gly Ala Val Ala Ala Ala
1 5

<210> 58
<211> 8
<212> PRT
<213> Homo sapiens

<400> 58

Val Pro Gly Ala Leu Gly Ala Ala
1 5

<210> 59
<211> 8
<212> PRT
<213> Homo sapiens

<400> 59

Val Pro Gly Ala Leu Ile Ala Ala
1 5

<210> 60
<211> 8
<212> PRT
<213> Homo sapiens

<400> 60

Val Pro Gly Ala Leu Leu Ala Ala
1 5

<210> 61
<211> 8
<212> PRT
<213> Homo sapiens

<400> 61

Val Pro Gly Ala Leu Val Ala Ala
1 5

<210> 62
<211> 8
<212> PRT
<213> Homo sapiens

<400> 62

Val Pro Gly Ala Leu Ala Gly Ala
1 5

<210> 63
<211> 8
<212> PRT
<213> Homo sapiens

<400> 63

Val Pro Gly Ala Leu Ala Ile Ala
1 5

<210> 64
<211> 8
<212> PRT
<213> Homo sapiens

<400> 64

Val Pro Gly Ala Leu Ala Leu Ala
1 5

<210> 65
<211> 8
<212> PRT
<213> Homo sapiens

<400> 65

Val Pro Gly Ala Leu Ala Val Ala
1 5

<210> 66
<211> 8
<212> PRT
<213> Homo sapiens

<400> 66

Val Pro Gly Ala Leu Ala Ala Ala
1 5

<210> 67
<211> 8
<212> PRT
<213> Homo sapiens

<400> 67

Val Pro Gly Ala Leu Ala Ala Gly
1 5

<210> 68
<211> 8
<212> PRT
<213> Homo sapiens

<400> 68

Val Pro Gly Ala Leu Ala Ala Ile
1 5

<210> 69
<211> 8
<212> PRT
<213> Homo sapiens

<400> 69

Val Pro Gly Ala Leu Ala Ala Leu
1 5

<210> 70
<211> 8
<212> PRT
<213> Homo sapiens

<400> 70

Val Pro Gly Ala Leu Ala Ala Val
1 5

<210> 71
<211> 515
<212> PRT
<213> Homo sapiens

<400> 71

Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly Gly Val Phe
1 5 10 15

Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro
20 25 30

Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly
35 40 45

Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala
50 55 60

Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Tyr Lys Ala Ala
65 70 75 80

Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly Leu Gly
85 90 95

Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly Val Lys Pro
100 105 110

Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro Gly Gly Val
115 120 125

Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro Gly Val Pro
130 135 140

Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly Gly Ala Phe
145 150 155 160

Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln Pro Gly Val
165 170 175

Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly
180 185 190

Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly
195 200 205

Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val
210 215 220

Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe
225 230 235 240

Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly Ala Gly Val
245 250 255

Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val
260 265 270

Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala
275 280 285

Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly
290 295 300

Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly Val Gly Val
305 310 315 320

Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala
325 330 335

Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala
340 345 350

Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val Gly Gly Ile
355 360 365

Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe Gly Val Gly
370 375 380

Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Ser Val Gly Gly Val
385 390 395 400

Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile Ser Pro Glu Ala Gln
 405 410 415

Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Gly Thr Pro Ala
 420 425 430

Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe Gly Leu Val
 435 440 445

Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
 450 455 460

Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly
 465 470 475 480

Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Ile Gly Pro Gly
 485 490 495

Gly Val Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala
 500 505 510

Gln Leu Arg
 515

<210> 72
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 72

Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly Val Gly Val
 1 5 10 15

Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly Leu Gly Val
 20 25 30

Gly Ala Gly Val Pro Gly Phe Gly Ala Gly Ala Asp Glu Gly Val Arg
 35 40 45

Arg

<210> 73
 <211> 171
 <212> PRT
 <213> Homo sapiens

<400> 73

Gly Val Arg Arg Ser Leu Ser Pro Glu Leu Arg Glu Gly Asp Pro Ser
 1 5 10 15

Ser Ser Gln His Leu Pro Ser Thr Pro Ser Ser Pro Arg Val Pro Gly
 20 25 30

Ala Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly
 35 40 45

Val Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly
 50 55 60

Val Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala
 65 70 75 80

Ala Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly
 85 90 95

Leu Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly
 100 105 110

Ile Pro Pro Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly
 115 120 125

Leu Gly Gly Val Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val
 130 135 140

Ala Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala
 145 150 155 160

Cys Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys
 165 170

<210> 74
 <211> 183
 <212> PRT

<213> Homo sapiens

<400> 74

Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly Val Gly Val
1 5 10 15

Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly Leu Gly Val
20 25 30

Gly Ala Gly Val Pro Gly Phe Gly Ala Val Pro Gly Ala Leu Ala Ala
35 40 45

Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly Val Leu Gly Gly
50 55 60

Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly Val Val Gly Ala
65 70 75 80

Gly Pro Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala
85 90 95

Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly Leu Gly Val Gly
100 105 110

Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly Ile Pro Pro Ala
115 120 125

Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly Leu Gly Gly Val
130 135 140

Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val Ala Ala Arg Pro
145 150 155 160

Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala Cys Leu Gly Lys
165 170 175

Ala Cys Gly Arg Lys Arg Lys
180

<210> 75

<211> 18

<212> PRT

<213> bovine tropoelastin

<400> 75

Val Pro Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Gly Gly Gly
1 5 10 15

Ala Phe

<210> 76

<211> 17

<212> PRT

<213> mouse tropoelastin

<400> 76

Val Pro Thr Gly Thr Gly Val Lys Ala Lys Ala Pro Gly Gly Gly Ala
1 5 10 15

Phe

<210> 77

<211> 18

<212> PRT

<213> bovine elastin

<400> 77

Val Pro Thr Gly Ala Gly Val Lys Pro Lys Ala Gln Val Gly Ala Gly
1 5 10 15

Ala Phe

<210> 78

<211> 16

<212> PRT

<213> rat tropoelastin

<400> 78

Val Pro Thr Gly Thr Gly Val Lys Ala Lys Val Pro Gly Gly Gly Gly
1 5 10 15

<210> 79

<211> 15

<212> PRT
<213> chicken tropoelastin

<400> 79

Val Pro Thr Gly Thr Gly Ile Lys Ala Lys Gly Pro Gly Ala Gly
1 5 10 15

<210> 80
<211> 17
<212> PRT
<213> mouse tropoelastin

<400> 80

Lys Ala Ala Ala Lys Ala Gln Tyr Arg Ala Ala Ala Gly Leu Gly Ala
1 5 10 15

Gly

<210> 81
<211> 17
<212> PRT
<213> bovine elastin

<400> 81

Lys Ala Ala Ala Lys Ala Gln Phe Arg Ala Ala Ala Gly Leu Pro Ala
1 5 10 15

Gly

<210> 82
<211> 20
<212> PRT
<213> Artificial

<220>
<223> tropoelastin consensus sequence

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> IS AN AROMATIC OR HYDROPHOBIC RESIDUE

<220>
<221> MISC_FEATURE

<222> (16)..(16)
<223> can be either Pro or Gly

<220>
<221> MISC_FEATURE
<222> (19)..(19)
<223> is a hydrophobic residue

<400> 82

Ala Lys Ala Ala Ala Lys Ala Gln Xaa Arg Ala Ala Ala Gly Leu Xaa
1 5 10 15

Ala Gly Xaa Pro
20

<210> 83
<211> 14
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (7)..(8)
<223> there is a reduced peptide bond between Arg and Ala

<400> 83

Ala Ala Lys Ala Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala
1 5 10

<210> 84
<211> 14
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (7)..(8)
<223> there is a reduced peptide bond between Ala and Arg

<400> 84

Ala Gly Leu Gly Ala Ala Ala Arg Leu Gln Ala Lys Ala Ala
1 5 10

<210> 85
<211> 14
<212> PRT

<213> Homo sapiens

<400> 85

Ala Gly Leu Gly Ala Ala Ala Arg Leu Gln Ala Lys Ala Ala
1 5 10

<210> 86

<211> 8

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (4)..(5)

<223> there is a reduced peptide bond between Ala and Leu

<400> 86

Val Pro Gly Ala Leu Ala Ala Ala
1 5

<210> 87

<211> 8

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (4)..(5)

<223> there is a reduced peptide bond between Leu and Ala

<400> 87

Ala Ala Ala Leu Ala Gly Pro Val
1 5

<210> 88

<211> 8

<212> PRT

<213> Homo sapiens

<400> 88

Ala Ala Ala Leu Ala Gly Pro Val
1 5

<210> 89

<211> 30

<212> DNA
 <213> Artificial

 <220>
 <223> mutagenic primer

 <400> 89
 cgggtttcgg tgctgttccg ggcgcgctgg 30

<210> 90
 <211> 20
 <212> DNA
 <213> Artificial

 <220>
 <223> primer

 <400> 90
 ggggtgttggc gttgcaccag 20

<210> 91
 <211> 20
 <212> DNA
 <213> Artificial

 <220>
 <223> primer

 <400> 91
 tgcacctaca acaccgcccg 20

<210> 92
 <211> 20
 <212> DNA
 <213> Artificial

 <220>
 <223> primer

 <400> 92
 tgcctttgcc ggtttgtacg 20

<210> 93
 <211> 20
 <212> DNA
 <213> Artificial

 <220>
 <223> primer

 <400> 93

tccaggtggc tacggtctgc

20

<210> 94

<211> 21

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 94

gagtacctac gcctgcgata c

21

<210> 95

<211> 20

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 95

ggagtaccaa cgccgtactt

20

<210> 96

<211> 20

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 96

gggtggtggc gttgcaccag

20

<210> 97

<211> 20

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 97

tgcacctaca acaccgcccg

20

<210> 98

<211> 20

<212> DNA

<213> Artificial

<220>
 <223> primer
 <400> 98
 gcactcacta tagggagacc 20

<210> 99
 <211> 20
 <212> DNA
 <213> Artificial

<220>
 <223> primer
 <400> 99
 gccaaactcag cttcctttcg 20

<210> 100
 <211> 20
 <212> DNA
 <213> Artificial

<220>
 <223> primer
 <400> 100
 taatacgact cactataggg 20

<210> 101
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 101

Val	Val	Gly	Ser	Pro	Ser	Ala	Gln	Asp	Glu	Ala	Ser	Pro	Leu	Ser
1				5					10				15	

<210> 102
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 102

Lys	Ala	Ala	Ala	Lys	Ala	Gly	Ala	Gly	Leu
1				5					10

<210> 103

<211> 12
<212> PRT
<213> Homo sapiens

<400> 103

Ala Leu Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala
1 5 10

<210> 104
<211> 11
<212> PRT
<213> Homo sapiens

<400> 104

Lys Ala Ala Gln Phe Gly Leu Val Pro Gly Val
1 5 10

<210> 105
<211> 18
<212> PRT
<213> Homo sapiens

<400> 105

Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly Gly Phe Tyr
1 5 10 15

Pro Gly

<210> 106
<211> 5
<212> PRT
<213> Homo sapiens

<400> 106

Arg Ala Ala Ala Gly
1 5